

2. **Use of other discharge locations.** Indicate what other discharge locations have been evaluated and the reasons why these locations are not feasible.

Other discharge locations evaluated are two named tributaries, Goldens Creek and Harpes Creek, located to the west of the affected area. Other watersheds nearer to the mine area have existing surface mine permits in them and were not considered since mine discharges are already located in them. The cost to discharge to Goldens Creek and Harpes Creek are as follows: Total distance is approximately 13,200 feet to each named tributary. It would require at least eight pump stations to pump up and over the mountain at a cost of \$200,000.00 per station $\times 8 = \$1,600,000.00$. At \$22/foot piping estimate, piping would be 13,200' \times \$22/foot = \$290,400.00. Total cost = \$1,890,400.00 to each named tributary. This does not include the cost to run electric lines to the pump stations or maintenance. The disturbance for access roads to install the lines and pumps would be approximately 7.6 acres for each line. 13,200' \times 25' divided by 43,560 sq. ft. per acre and with pump sites the acreage would be approximately 10 acres per line at a minimum. The cost to discharge to other locations has been evaluated and is not feasible. Ultimately the discharge would still enter the Cumberland River.

The current proposal has 15 on-bench ponds and only one off-bench pond. This keeps the disturbance to a minimum.